

Response Under 37 CFR 1.116
Expedited Procedure
Examining Group 3722

1. (Currently Amended) A drilling tool for drilling metals, comprising a shank with a first end and a second end, at least one of the ends having a drill head with flutes and a centering cone, the drill head and the centering cone each having three lips, and main cutting edges of the three lips of the drill head (8, 81, 82) being relief-ground at least in sections, wherein the centering cone (11) projects from an area which is described by the main cutting edges by rotation of the drilling tool about its shank axis (2) wherein cutting edges (93) of the centering cone (11) are relief-ground in a positive manner at least in portions, and

wherein the area which is described by the main cutting edges (91) by rotation of the drilling tool about its shank axis (2) comprises a plane area.

2. (Cancelled)

3. (Original) The drilling tool as claimed in claim 1, wherein the centering cone (11) has at least three cutting edges (93).

4. (Previously Presented) The drilling tool as claimed in claim 3, wherein the cutting edges (93) of the centering cone (11) run obliquely relative to the feed direction of the tool, wherein the cutting edges (93) of the centering cone (11) have a smaller point angle than the main cutting edges (91).

5. (Cancelled)

6. (Original) The drilling tool as claimed in claim 1, wherein the shank (3) has at least one step (21) in the feed direction (19) of the tool.

7. (Previously Presented) The drilling tool as claimed in claim 1, wherein the shank (3) has at least one clamping surface (13).

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8. (Previously Presented) The drilling tool as claimed in claim 1, wherein the drilling tool has a coating which comprises a mechanically resistant material.
9. (Original) The drilling tool as claimed in claim 8, wherein the coating comprises an anti-corrosion material.
10. (Original) The drilling tool as claimed in claim 1, wherein the material of the drill head (8, 81, 82) comprises at least one of carbide and fine-grain solid carbide and HSS and HSSE.
11. (Previously Presented) The drilling tool as claimed in claim 1, wherein the flanks (12) of the main cutting edges have a convexly shaped region.
12. (Previously Presented) The drilling tool as claimed in claim 11, wherein the convexly shaped region is shaped in such a way that the drill works free of canting up to 10° to a normal of a workpiece surface to be spot-drilled.
13. (Original) The drilling tool as claimed in claim 1, wherein the flanks (14) of secondary cutting edges (92) of the tool are relief-ground.
14. (Original) The drilling tool as claimed in claim 1, wherein both ends (5, 7) of the shank (3) have a drill head (81, 82).
15. (Original) The drilling tool as claimed in claim 14, wherein the drill heads (81, 82) have different diameters.
16. (Original) The drilling tool as claimed in claim 14, wherein the drill heads (81, 82) have at least one of different rake angles and point angles and clearance angles and centering cones with different dimensions.